



RE: FW: Canby Tank Sample

Lorri Grainawi

to:

Andrea Barbery, Toso, Mark (MPCA), craig.schaefer@state.mn.us,
gary.zarling@state.mn.us, Carey.Mattison@state.mn.us, Wayne Geyer

07/20/2012 10:46 AM

Cc:

Ann Keeley, Cherri Adair, Fran Kremer, Jack Hwang, Jim Weaver, JohnT Wilson, Michael Pomes, Paul Miller, Renae Cochran

Hide Details

From: Lorri Grainawi <lgrainawi@steeltank.com> Sort List...

To: Andrea Barbery/DC/USEPA/US@EPA, "Toso, Mark (MPCA)"

<mark.toso@state.mn.us>, "craig.schaefer@state.mn.us" <craig.schaefer@state.mn.us>,
 "gary.zarling@state.mn.us" <gary.zarling@state.mn.us>, "Carey.Mattison@state.mn.us"
 <Carey.Mattison@state.mn.us>, Wayne Geyer <wgeyer@steeltank.com>,

Cc: Ann Keeley/ADA/USEPA/US@EPA, Cherri Adair/ADA/USEPA/US@EPA, Fran Kremer/CI/USEPA/US@EPA, Jack Hwang/R3/USEPA/US@EPA, Jim Weaver/ADA/USEPA/US@EPA, JohnT Wilson/ADA/USEPA/US@EPA, Michael Pomes/R7/USEPA/US@EPA, Paul Miller/DC/USEPA/US@EPA, Renae Cochran/ADA/USEPA/US@EPA

Cochran/ADA/USEPA/US@EPA

1 Attachment



MN failures.docx

I forwarded the photos of the flex pipe failure to Kevin Henderson to get his thoughts, because he has seen so many of these pipes fails. Here's what he had to say:

From: Kevin Henderson [<mailto:kevin4824@comcast.net>]

Sent: Thursday, July 19, 2012 4:14 PM

To: Lorri Grainawi; Wayne Geyer

Subject: RE: Flex pipe failure

This appears to be the "bone" version that TCI built in their 3rd attempt to make a decent pipe. The first two versions were the yellow colored urethanes. If my memory serves me correctly, the bone version used polyethylene as the outer layer. While there have been plenty of bone failures, I can't say as I recall seeing one that looked like this. Usually, the bone layer would become very soft and split open when the liner blew out but I've never seen it look like this – All dried up and brittle. Very unusual. Of course it could be one of the original yellow versions and it just looks "bone" but it sure looks like the bone version to me. Either way, this is a really old pipe since it was built probably within 3 or 4 years after TCI began production. It could be e85 related since something has caused the bone layer to behave differently that I'm used to but who knows?

Thanks for sharing – Kevin

I am still looking for information on other steel tank failures. It would greatly help STI to determine what's happening if we know the extent of the possible problems and as many details as possible. I left a message for Preet Singh to talk to him about what STI would like done to examine the sample we have and find out more about what he is planning to do and what is lab is capable of doing, to see if it is possible to have all testing done at one location.

Here's the information, as I understand it, about the failures related to E85 to date in MN. I'd appreciate your help in filling in the blanks.

Site	Date failure	Description eqpt failed	Age of equip	Length time E85 stored	Other product history	Comments
Canby, MN	5/28/12	SW P3 tank	15 yrs	Since 2004	Original product super UL	Failed tightness test 6/6/12 Apparent cause of failure is crack in center of weld at about 4 to 5 o'clock position, at first shell seam from STP end, on south end of tank
Montevideo	2012	SW P3 tank	17			Apparent weld failure
Hastings	2009	Tank?				
Alexandria	2010	Steel tank?				
LeSeur	2012	Steel pipe				
Buffalo Lake	2012	Flex pipe				Pipe deteriorated probably due to incompatibility with product.

From: Andrea Barbery [<mailto:Barbery.Andrea@epamail.epa.gov>]

Sent: Wednesday, July 18, 2012 3:59 PM

To: Toso, Mark (MPCA)

Cc: Ann Keeley; Cherri Adair; Fran Kremer; Jack Hwang; Jim Weaver; JohnT Wilson; Michael Pomes; Paul Miller; Renae Cochran

Subject: Re: FW: Canby Tank Sample

Hi Mark,

Yes, thanks, Lorri and I chatted yesterday. We had talked previously about how STI also wanted to do some investigation on these failed welds. I told her we were looking into the SCC aspect, and we wanted the part of the weld where the crack initiates. I sent Lorri Dr. Singh's contact info -- she's going to try to see if we can both get what we need out of the sample. Perhaps Dr. Singh's laboratory can meet both of our needs.

Thanks again for your help getting these samples for testing.

Thanks,
Andrea Barbery, OUST
(703) 603-7137

▼ "Toso, Mark (MPCA)" ---07/18/2012 04:45:20 PM---John - Below is the information on the other E85 tank failure in Canby. As you can see by the pictu

From: "Toso, Mark (MPCA)" <mark.toso@state.mn.us>

To: JohnT Wilson/ADA/USEPA/US@EPA

Cc: Fran Kremer/CI/USEPA/US@EPA, Renae Cochran/ADA/USEPA/US@EPA, Andrea Barbery/DC/USEPA/US@EPA, Jack Hwang/R3/USEPA/US@EPA, Michael Pomes/R7/USEPA/US@EPA, Paul Miller/DC/USEPA/US@EPA, Cherri Adair/ADA/USEPA/US@EPA, Jim Weaver/ADA/USEPA/US@EPA, Ann Keeley/ADA/USEPA/US@EPA

Date: 07/18/2012 04:45 PM

Subject: FW: Canby Tank Sample

John –

Below is the information on the other E85 tank failure in Canby. As you can see by the pictures it was another crack. This makes 5 E85 steel tank failures with 4 due to cracking along weld seams (the other failure was not documented) in the last few years. We were not able to get this sample but we gave STI information on testing you plan to do, sounds like they have been in contact with Andrea to exchange the samples (I assume it's Andrea and they misspelled her last name). Here is her contact info if you need it:

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O – 847-438-8265, Fax – 847-438-8766
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MAT

Mark A. Toso, P.G.
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Minnesota Pollution Control Agency
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Email: mark.toso@state.mn.us

From: Mattison, Carey (MPCA)
Sent: Wednesday, July 18, 2012 9:37 AM
To: Toso, Mark (MPCA); Oman, Beth (MPCA); Higgins, Tom (MPCA); Zarling, Gary (MPCA); Schafer, Craig (MPCA)
Subject: RE: Canby Tank Sample

FYI,

STI was on site and is going to take the sample of the tank. Lori Granawi was the representative from STI. It sounds as if though she has been in contact with Andrea Borsgard with EPA to coordinate testing of the sample, to make sure everyone gets what they need. Even though we did not get the sample it sounds like STI is going to share the sample with EPA. They are going to be cutting the sample out today. I am hopefully going to make it over to see the sample after they get it cut out.

I will email some photos after that has happened.

Carey Mattison

[attachment "IMG-20120717-00014.jpg" deleted by Andrea Barbery/DC/USEPA/US] [attachment "IMG-20120717-00011.jpg" deleted by Andrea Barbery/DC/USEPA/US]